

Performance Data Sheet

VSC5538ENA

General Information

Model	VSC5538ENA	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	14800	14000					
	Watts	1880	2180					
	Amps	9.29	9.97					
	Lb/h	191	187					
-10	Btu/h	15900	15000	13900				
	Watts	1880	2160	2510				
	Amps	9.43	10.1	11.1				
	Lb/h	204	200	193				
-5	Btu/h	17400	16500	15300	13900			
	Watts	1880	2150	2470	2880			
	Amps	9.55	10.2	11.1	12.4			
	Lb/h	221	218	211	200			
0	Btu/h	19200	18300	17100	15600	13800		
	Watts	1880	2140	2450	2830	3300		
	Amps	9.65	10.2	11.1	12.4	14.0		
	Lb/h	243	240	234	224	208		
5	Btu/h	21400	20400	19200	17700	15900		
	Watts	1880	2130	2430	2780	3220		
	Amps	9.72	10.3	11.2	12.4	14.0		
	Lb/h	270	266	261	252	237		
10	Btu/h	24000	22800	21500	20000	18300	16100	13400
	Watts	1880	2120	2410	2750	3170	3680	4310
	Amps	9.78	10.3	11.2	12.4	14.0	15.9	18.2
	Lb/h	300	296	291	283	269	250	223
15	Btu/h	26900	25600	24200	22600	20800	18700	16100
	Watts	1870	2120	2400	2720	3120	3610	4200
	Amps	9.82	10.4	11.2	12.4	14.0	15.9	18.2
	Lb/h	334	330	325	317	305	288	263
20	Btu/h	30100	28600	27100	25500	23600	21500	18900
	Watts	1850	2110	2390	2700	3080	3540	4110
	Amps	9.85	10.4	11.2	12.4	13.9	15.8	18.1
	Lb/h	372	367	361	354	343	327	305

25	Btu/h	33700	32000	30300	28600	26600	24500	21900
	Watts	1830	2100	2380	2690	3060	3500	4030
	Amps	9.86	10.4	11.2	12.4	13.9	15.8	18.0
	Lb/h	413	407	401	394	384	370	350
30	Btu/h	37500	35600	33700	31900	29900	27600	25100
	Watts	1800	2080	2360	2680	3030	3460	3970
	Amps	9.85	10.4	11.2	12.4	13.9	15.8	18.0
	Lb/h	458	450	443	436	427	414	396
35	Btu/h	41600	39500	37400	35400	33200	30900	28300
	Watts	1760	2050	2350	2660	3020	3430	3920
	Amps	9.84	10.4	11.2	12.4	13.9	15.8	18.0
	Lb/h	505	496	489	481	472	460	444
40	Btu/h	46000	43600	41300	39100	36800	34400	31700
	Watts	1700	2020	2330	2650	3000	3410	3880
	Amps	9.81	10.4	11.2	12.4	13.9	15.8	18.0
	Lb/h	556	545	536	528	520	508	493
45	Btu/h	50700	47900	45400	43000	40500	38000	35300
	Watts	1630	1980	2300	2640	2990	3390	3860
	Amps	9.78	10.3	11.2	12.4	13.9	15.8	18.0
	Lb/h	609	596	586	577	569	558	544
50	Btu/h	55600	52500	49700	47000	44400	41700	38900
	Watts	1550	1920	2270	2620	2980	3380	3840
	Amps	9.74	10.3	11.2	12.4	13.9	15.8	18.0
	Lb/h	664	649	638	628	619	609	596
55	Btu/h	60700	57300	54200	51300	48400	45500	42600
	Watts	1450	1860	2230	2600	2970	3380	3830
	Amps	9.69	10.3	11.2	12.4	14.0	15.9	18.1
	Lb/h	722	705	692	681	671	661	649

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.247092E+04	-7.333279E+02	1.520006E+01	3.516289E+02
C2	8.322648E+02	-4.012995E+01	3.403828E-02	9.492676E+00
C3	-3.438387E+02	6.269152E+01	-1.653263E-01	-4.127643E+00
C4	1.133959E+01	-6.745131E-01	-1.156760E-03	1.206148E-01
C5	-8.672381E+00	1.098586E+00	2.991314E-05	-1.092235E-01
C6	3.550354E+00	-6.405373E-01	1.003359E-03	5.532305E-02
C7	-1.658634E-02	-1.995594E-03	1.928662E-06	-2.502181E-04
C8	-5.120039E-02	7.987437E-03	9.393872E-06	-4.553447E-04
C9	4.180999E-02	-7.441570E-03	-2.999293E-06	6.373261E-04
C10	-1.650507E-02	3.315669E-03	2.446747E-06	-2.577869E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature